

**WHAT IS CLAIMED IS:**

1. A screen for managing light comprising:  
a substrate; and  
5 a polymeric composition disposed on the substrate, the polymeric composition comprising  
adhesive material; and  
dispersed phase material disposed as a plurality of elongated structures  
within the adhesive material, each elongated structure having a major axis, wherein  
10 the major axes of the elongated structures are substantially aligned and the  
dispersed phase material has an index of refraction that differs by at least 0.01 from  
an index of refraction of the adhesive material.
2. A screen according to claim 1 wherein the screen comprises a rear  
15 projection screen.
3. A screen according to claim 1 wherein the screen comprises a front  
projection screen.
- 20 4. A screen according to claim 1 wherein the screen manages light to provide  
a first viewing angle in a first direction and a second viewing angle in a second direction,  
the first direction being perpendicular to the second direction, and wherein the adhesive  
composition provides the display with a first viewing angle that is broader than the second  
viewing angle.
- 25 5. A screen according to claim 2 further comprising a lenticular structure.
6. A screen according to claim 5 further comprising a polarizer.
- 30 7. A screen according to claim 1 further including a fresnel lens.

8. A screen according to claim 1 further including a polarizer.

9. A screen according to claim 3 further including a reflective element.

5 10. A screen according to claim 9 further including a polarizer.

11. A method of making an optical element such as a screen or display with  
preferential light scattering directions, the method comprising:

10 forming a polymeric composition comprising a first polymeric material and a  
second polymeric material dispersed within the first polymeric material, wherein an index  
of refraction of the first polymeric material differs by at least 0.01 from an index of  
refraction of the second polymeric material; and

15 dispensing the polymeric composition on a substrate, wherein the dispensing  
results in the second polymeric material forming a plurality of elongated structures within  
the first polymeric material, each elongated structure having a major axis with the major  
axes of the elongated structures being substantially aligned.

12. The method of claim 11, wherein dispensing the polymeric composition  
comprises dispensing the polymeric composition on a substrate at a temperature wherein a  
shear viscosity of the second polymeric material is within the range of 0.5 to 2 times a  
shear viscosity of the first polymeric material.

13. An optical system comprising:

an illumination source for providing light,

25 a screen having a incident surface for receiving light from the illumination source  
and a viewing surface, the screen comprising:

a first polymeric material and a dispersed phase material disposed as a plurality of  
elongated structures within the first polymeric material, each elongated structure having a  
major axis, wherein the major axes of the elongated structures are substantially aligned and  
30 the dispersed phase material has an index of refraction that differs by at least 0.01 from an

index of refraction of the first polymeric material, and wherein the elongated structures are sized, shaped and positioned to asymmetrically diffuse light from the illumination source.

14. An optical system according to claim 13 wherein the screen comprises a  
5 rear projection screen.

15. An optical system according to claim 13 wherein the screen manages light  
to provide a first viewing angle in a first direction and a second viewing angle in a second  
10 direction, the first direction being perpendicular to the second direction, and wherein the  
first composition provides the display with a first viewing angle that is broader than the  
second viewing angle.

16. An optical system according to claim 13 further comprising a lenticular  
15 structure.

17. An optical system according to claim 13 further comprising a polarizer.

18. An optical system according to claim 13 wherein the screen further  
20 comprises a fresnel lens.

19. An optical system according to claim 13 further including a reflective  
25 element.

20. An optical system according to claim 13 wherein the illumination source  
25 provides polarized light in a polarization state.